

CHAPTER 3

METHODOLOGY

3.1 Introduction

In this chapter, it will explain detail on the overall flow of the project from the procedures and data collection method. This methodology also acts as a guideline and direction to ensure a smooth flow of the project. In this project, many method will be used such as calculate the cycle time, takt time, number of workstation and number of workers. The cycle time, number of workers and line efficiency will be calculated manually at first in order to access the current performance of the line. Then, Tecnomatix software is used to simulate the line balancing and to further improve the layout of the process.

3.2 Project Flow Chart

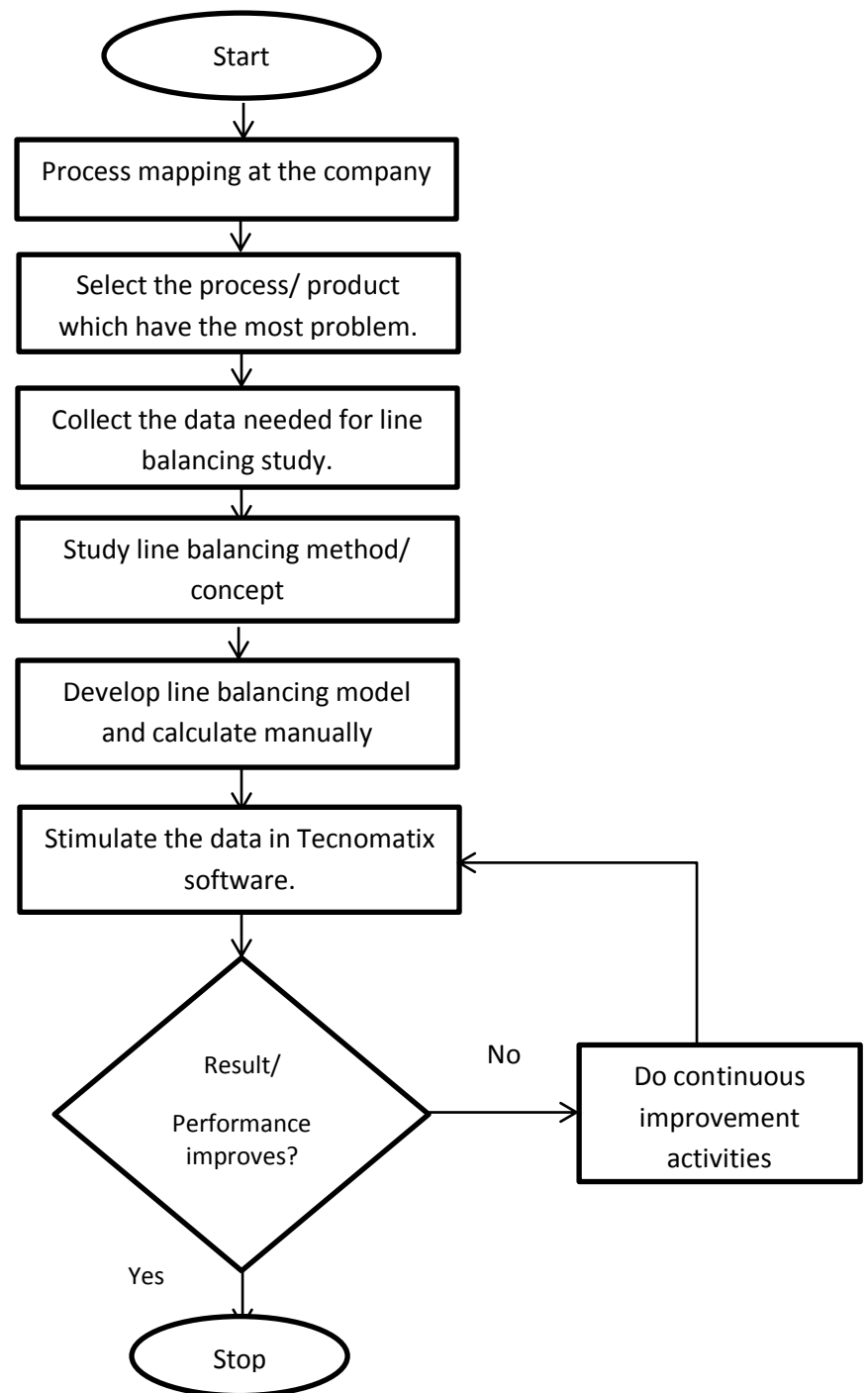


Figure 3.1: Project flow chart

3.2.1 Line balancing technique flow chart

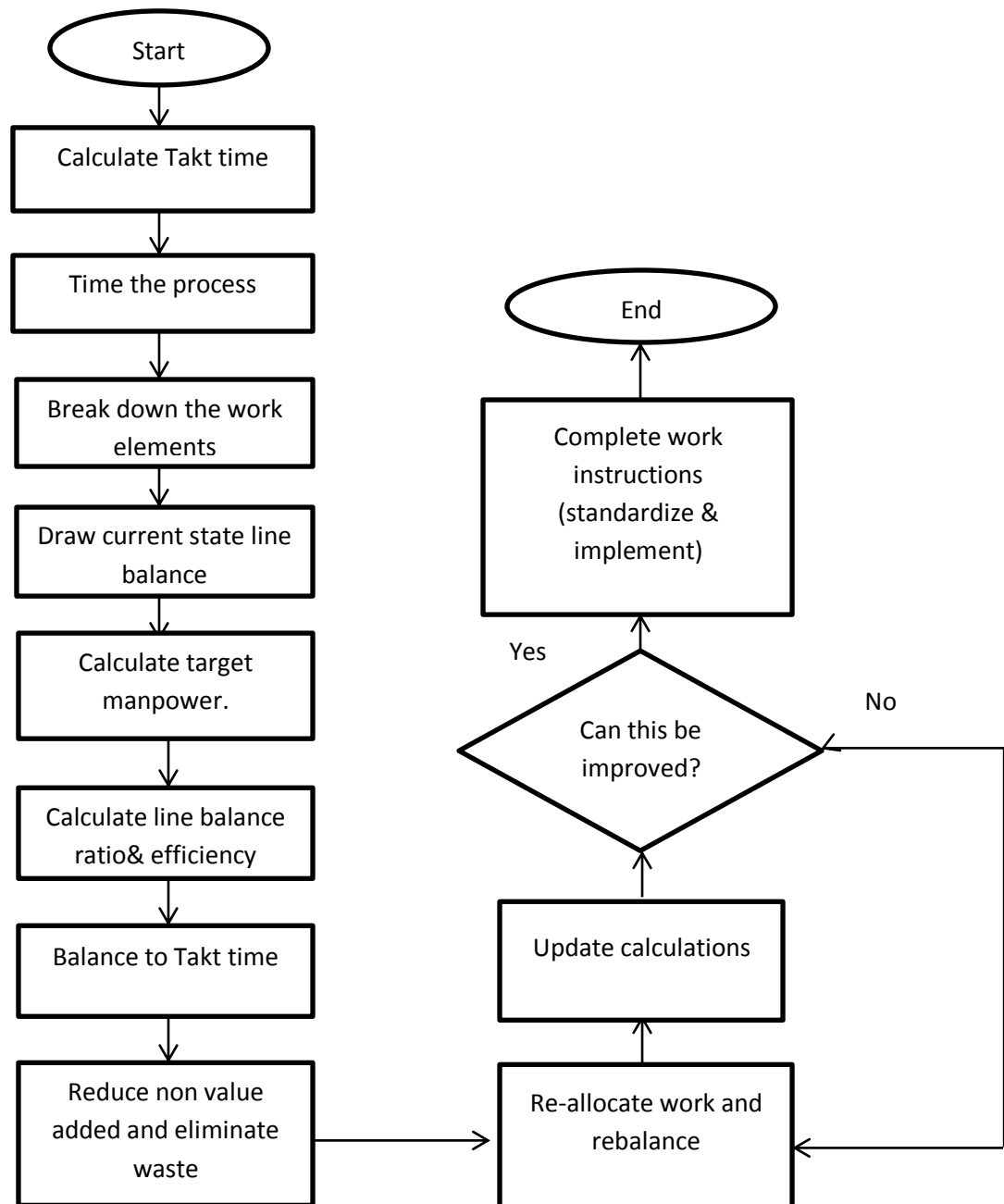


Figure 3.2: Line balancing technique flow chart